

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
26 July 2001 (26.07.2001)

PCT

(10) International Publication Number
WO 01/53889 A1

(51) International Patent Classification⁷: **G03F 7/00**, (74) Agent: AWAPATENT AB; Box 5117, S-200 71 Malmö (SE).

(21) International Application Number: **PCT/SE01/00087**

(81) Designated States (*national*): AE, AG, AL, AM, AT, AT (utility model), AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, CZ (utility model), DE, DE (utility model), DK, DK (utility model), DM, DZ, EE, EE (utility model), ES, FI, FI (utility model), GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK (utility model), SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

(22) International Filing Date: 19 January 2001 (19.01.2001)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0000173-5 21 January 2000 (21.01.2000) SE
60/177,284 21 January 2000 (21.01.2000) US

(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **LING, Torbjörn** [SE/SE]; Björn Järnsidas gränd 9, S-224 77 Lund (SE). **MONTELJUS, Lars** [SE/SE]; Montelinvägen 16, S-237 35 Bjärred (SE). **HEIDARI, Babak** [SE/SE]; Trastvägen 9, S-227 31 Lund (SE).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 01/53889 A1

(54) Title: A MOLD FOR NANO IMPRINTING

(57) Abstract: A metal mold for use in a nano-imprinting process comprises a firmly adhering monomolecular non-sticking layer. The layer was obtained by subjecting the mold to a reaction with a fluoroalkyl compound having a mercapto group. As a result of said reaction, the layer comprises an organic sulfide of said metal.